

# SETUP & OPERATION MANUAL

## FEATURES & SPECIFICATIONS

- ② Universal design that adapts to similar sized tables from most other brands. Requires two mounting holes in the table (front & back) for an easy installation.
- ② Complete bandsaw fence system includes fence, rails and 3 1/2" resaw guide.

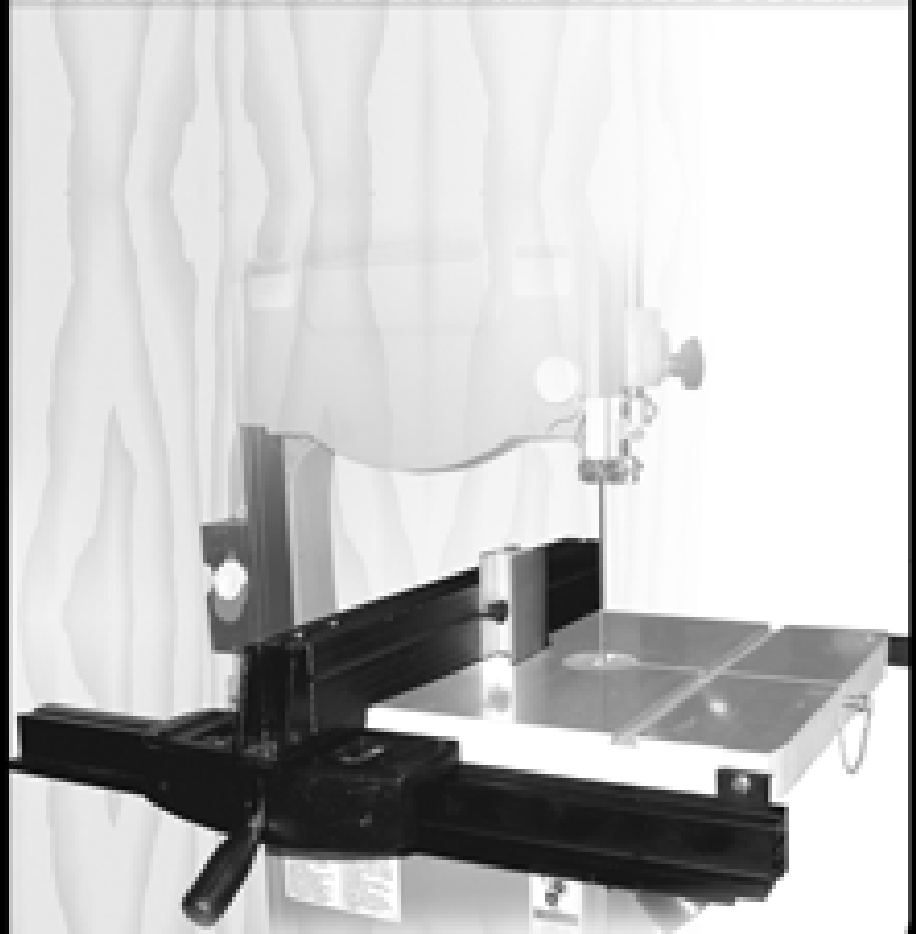
### LENGTH

21" FENCE, 29" FRONT RAIL &  
25 3/4" REAR RAIL **(90-075A)**  
FITS GENERAL INTERNATIONAL MODEL:  
90-100, 90-125, 90-140, 490-1, 590-1 & 690-1

25" FENCE, 29" FRONT RAIL &  
25 3/4" REAR RAIL **(90-075B)**  
FITS GENERAL INTERNATIONAL MODEL:  
90-240, 90-270, 90-320, 90-360, 90-170/90-170B  
& 90-290

28" FENCE & 34" RAILS **(90-075C)**  
FITS GENERAL INTERNATIONAL MODEL:  
90-280, 90-460, 90-600 & 90-380

## UNIVERSAL BANDSAW RIP FENCE SYSTEM



# MODEL

## #90-075A/B/C



VERSION 2\_REVISION 2 - October 12/10

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## **GENERAL® INTERNATIONAL**

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**THANK YOU** for choosing this Excalibur by General® International model 90-075 A/B/C Universal Bandsaw Rip Fence System. This Rip Fence System has been carefully tested and inspected before shipment and if properly used and maintained, will provide you with years of reliable service. For your safety, as well as to ensure optimum performance and trouble-free operation, and to get the most from your investment, please take the time to read this manual before assembling, installing and operating the unit.

The manual's purpose is to familiarize you with the safe operation, basic function, and features of this Rip Fence System as well as the set-up, maintenance and identification of its parts and components. This manual is not intended as a substitute for formal woodworking instruction, nor to offer the user instruction in the craft of woodworking. If you are not sure about the safety of performing a certain operation or procedure, do not proceed until you can confirm, from knowledgeable and qualified sources, that it is safe to do so.

Once you've read through these instructions, keep this manual handy for future reference.

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**Disclaimer:** The information and specifications in this manual pertain to the unit as it was supplied from the factory at the time of printing. Because we are committed to making constant improvements, General® International reserves the right to make changes to components, parts or features of this unit as deemed necessary, without prior notice and without obligation to install any such changes on previously delivered units. Reasonable care is taken at the factory to ensure that the specifications and information in this manual corresponds with that of the unit with which it was supplied.

However, special orders and "after factory" modifications may render some or all information in this manual inapplicable to your machine. Further, as several generations of this model of rip fence system and several versions of this manual may be in circulation, if you own an earlier or later version of this unit, this manual may not depict your tool exactly. If you have any doubts or questions contact your retailer or our support line with the model number of your unit for clarification.

# GENERAL® & GENERAL® INTERNATIONAL WARRANTY

All component parts of General®, General® International and Excalibur by General International® products are carefully inspected during all stages of production and each unit is thoroughly inspected upon completion of assembly.

## **Limited Lifetime Warranty**

Because of our commitment to quality and customer satisfaction, General® and General® International agree to repair or replace any part or component which upon examination, proves to be defective in either workmanship or material to the original purchaser for the life of the tool. *However, the Limited Lifetime Warranty does not cover any product used for professional or commercial production purposes nor for industrial or educational applications. Such cases are covered by our Standard 2-year Limited Warranty only. The Limited Lifetime Warranty is also subject to the "Conditions and Exceptions" as listed below.*

## **Standard 2-Year Limited Warranty**

All products not covered by our lifetime warranty including products used in commercial, industrial and educational applications are warranted for a period of 2 years (24 months) from the date of purchase. General® and General® International agree to repair or replace any part or component which upon examination, proves to be defective in either workmanship or material to the original purchaser during this 2-year warranty period, subject to the "conditions and exceptions" as listed below.

## **To file a Claim**

To file a claim under our Standard 2-year Limited Warranty or under our Limited Lifetime Warranty, all defective parts, components or machinery must be returned freight or postage prepaid to General® International, or to a nearby distributor, repair center or other location designated by General® International. For further details call our service department at 1-888-949-1161 or your local distributor for assistance when filing your claim.

Along with the return of the product being claimed for warranty, a copy of the original proof of purchase and a "letter of claim" must be included (a warranty claim form can also be used and can be obtained, upon request, from General® International or an authorized distributor) clearly stating the model and serial number of the unit (if applicable) and including an explanation of the complaint or presumed defect in material or workmanship.

## **CONDITIONS AND EXCEPTIONS:**

This coverage is extended to the original purchaser only. Prior warranty registration is not required but documented proof of purchase i.e. a copy of original sales invoice or receipt showing the date and location of the purchase as well as the purchase price paid, must be provided at the time of claim.

Warranty does not include failures, breakage or defects deemed after inspection by General® or General® International to have been directly or indirectly caused by or resulting from; improper use, or lack of or improper maintenance, misuse or abuse, negligence, accidents, damage in handling or transport, or normal wear and tear of any generally considered consumable parts or components.

***Repairs made without the written consent of General® International will void all warranty.***

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# Rules for Safe Operation

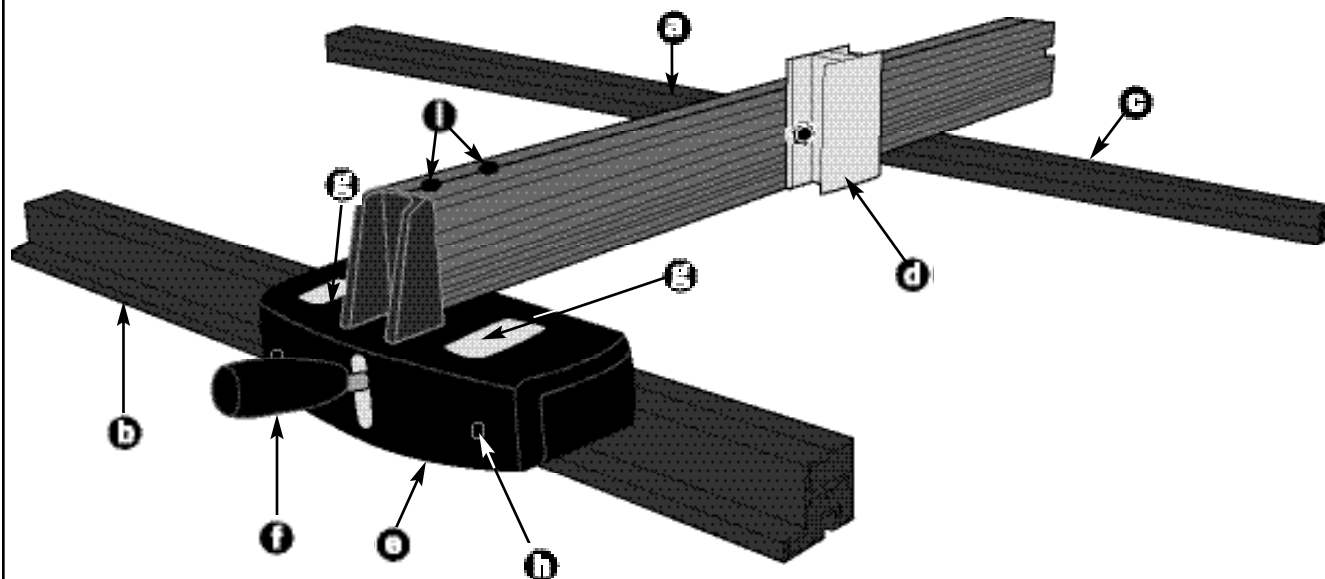
To help ensure safe operation, please take a moment to learn the machine's applications and limitations, as well as potential hazards. General® International disclaims any real or implied warranty and hold itself harmless for any injury that may result from the improper use of its equipment.

1. Do not operate the bandsaw when tired, distracted, or under the effects of drugs, alcohol or any medication that impairs reflexes or alertness.
2. The working area should be well lit, clean and free of debris.
3. Keep children and visitors at a safe distance when the bandsaw is in operation; do not permit them to operate the bandsaw.
4. Childproof and tamper proof your shop and all machinery with locks, master electrical switches and switch keys, to prevent unauthorized or unsupervised use.
5. Stay alert! Give your work your undivided attention. Even a momentary distraction can lead to serious injury.
6. Fine particulate dust is a carcinogen that can be hazardous to health. Work in a well ventilated area and use a dust collector whenever possible. Wear protective hair covering to contain long hair and wear non-slip footwear, approved safety glasses, dust mask and hearing protection.
7. Do not wear loose clothing, gloves, bracelets, neck laces or other jewelry while the bandsaw is in operation.
8. Be sure that adjusting wrenches, tools, drinks and other clutter are removed from the machine and/or the table surface before operating.
9. Keep hands well away from blades and all moving parts. Use a brush, not hands, to clear away chips and dust.
10. Adjust and position upper and lower blade guides before starting to cut. Upper blade guide should be adjusted to approximately 1/8" above the material to be cut.
11. Adjust blade tension and tracking before starting to cut.
12. Saw teeth must point down toward the table.
13. Be sure that the blade has gained full operating speed before starting to cut.
14. Always use a clean, properly sharpened blade. Dirty or dull blades are unsafe and can lead to accidents.
15. Use suitable work piece support if the work piece does not have a flat surface.
16. Hold material firmly against the table.
17. Do not work on long stock without adequate support on the out feed end of the table.
18. If using a power feeder, stop the feeder before stopping the bandsaw.
19. Do not push or force stock into the blade. The bandsaw will perform better and more safely when working at the rate for which it was designed.
20. Avoid working from awkward or off balance positions. Do not overreach and keep both feet on floor.
21. Keep guards in place and in working order. If a guard must be removed for maintenance or cleaning, be sure it is properly re-attached before using the tool again.
22. Never leave the machine unattended while it is running or with the power on.
23. Use of parts and accessories NOT recommended by General® International may result in equipment malfunction or risk of injury.
24. Never stand on machinery. Serious injury could result if the tool is tipped over or if the cutting tool is unintentionally contacted.
25. Always disconnect the tool from the power source before changing accessories such as blades, or before performing any maintenance or cleaning, or if the machine will be left unattended.
26. Make sure that the switch is in the "OFF" position before plugging in the power cord.
27. Make sure the tool is properly grounded. If equipped with a 3-prong plug it should be used with a three-pole receptacle. Never remove the third prong.
28. Do not use this bandsaw rip fence for other than its intended use. If used for other purposes, General® International disclaims any real implied warranty and holds itself harmless for any injury, which may result from that use.



## UNIVERSAL BANDSAW RIP FENCE SYSTEM 90-075A/B/C

### IDENTIFICATION OF MAIN PARTS AND COMPONENTS



- |                           |                                  |
|---------------------------|----------------------------------|
| <b>a</b> FENCE            | <b>f</b> FENCE LOCKING HANDLE    |
| <b>b</b> FRONT FENCE RAIL | <b>g</b> POINTER                 |
| <b>c</b> REAR FENCE RAIL  | <b>h</b> SCREW (ECCENTRIC SHAFT) |
| <b>d</b> RESAW GUIDE      | <b>i</b> FENCE ALIGNMENT BOLTS   |
| <b>e</b> FENCE BASE       |                                  |

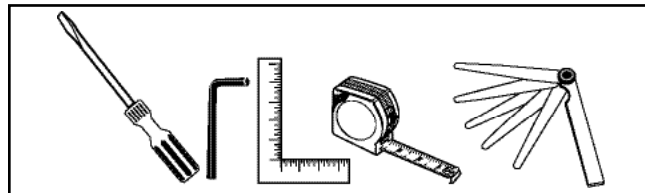
### UNPACKING & SET UP

#### ASSEMBLY TOOLS PROVIDED



- (1) 10/12 mm Combination Wrench
- (1) 5 mm Allen key
- (1) 3 mm Allen Key

#### ADDITIONAL TOOLS NEEDED



- Flat head screwdriver
- 8 mm Allen key
- Machinist square
- Measuring tape or ruler
- Feeler gauge (optional)



TO REDUCE THE RISK OF DAMAGE TO THE BANDSAW, THE FENCE SYSTEM OR THE WORK PIECE, AS WELL AS THE POTENTIAL FOR PERSONAL INJURY, AFTER INITIAL SET-UP AS WELL AS BEFORE EACH USE, MAKE SURE THAT EVERYTHING IS SECURELY INSTALLED AND THAT ALL FASTENERS AND MOVING PARTS ON THIS FENCE SYSTEM ARE LOCKED IN PLACE BEFORE STARTING THE BANDSAW.

## UNPACKING

Carefully unpack and remove the Rip Fence System and its components from the box and check for missing or damaged items as per the list of contents below.

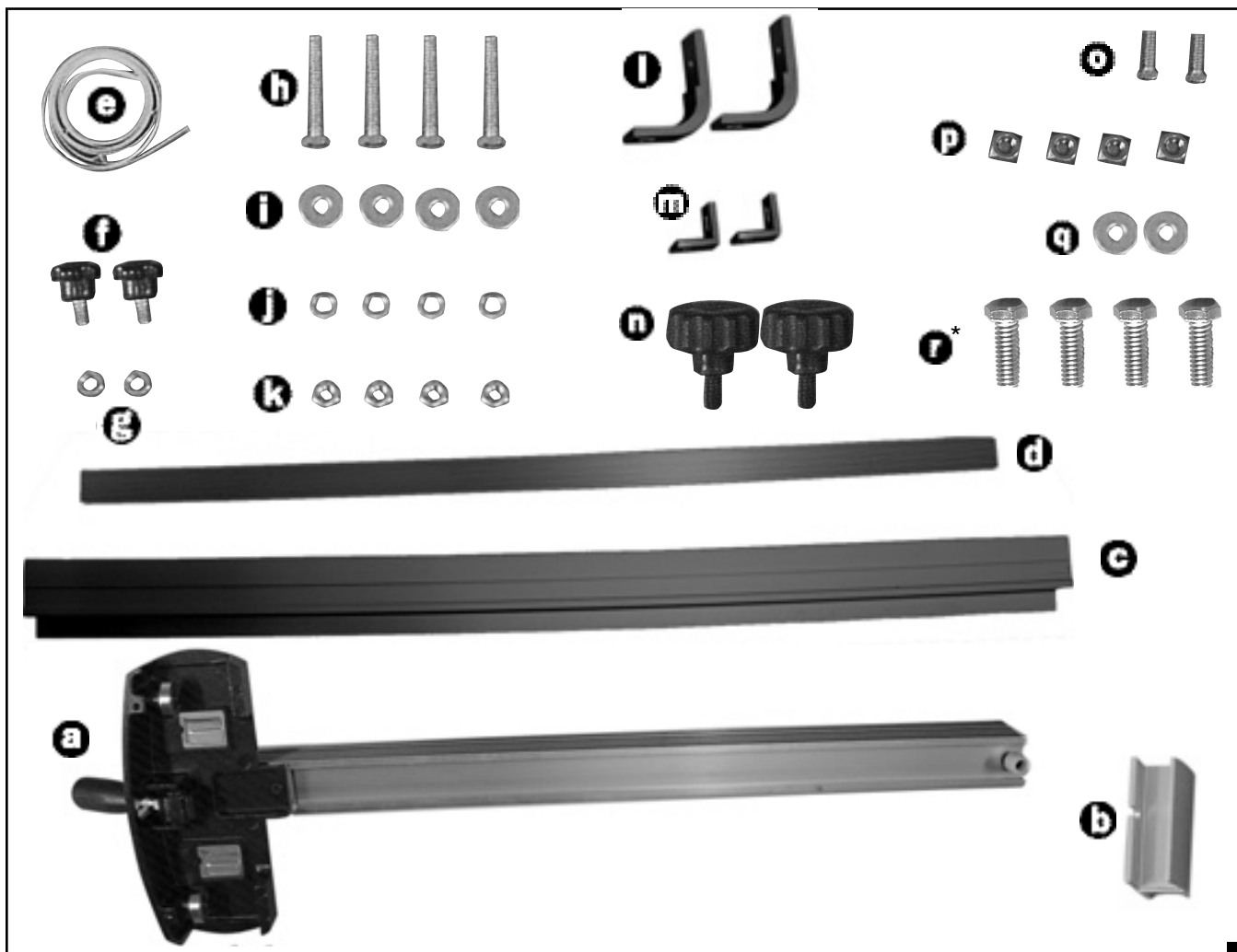
**NOTE:** Please report any damaged or missing items to your **GENERAL® INTERNATIONAL** distributor immediately.

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Once the parts have been removed from the packaging, you should have the following items:

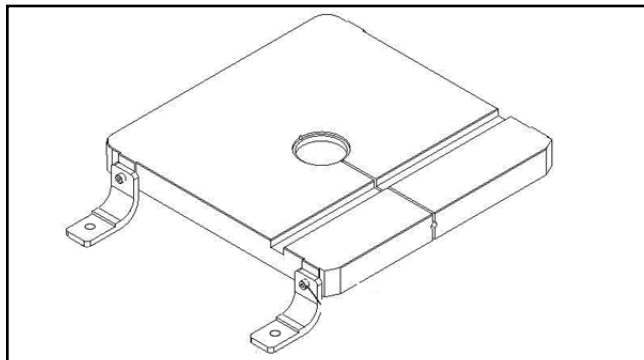
	Qty		Qty
<b>a</b> FENCE . . . . .	1	<b>l</b> LOCK WASHER . . . . .	4
<b>b</b> RESAW GUIDE . . . . .	1	<b>k</b> HEX NUT . . . . .	4
<b>c</b> FRONT RAIL . . . . .	1	<b>i</b> FRONT MOUNTING BRACKET . . . . .	2
<b>d</b> REAR RAIL . . . . .	1	<b>m</b> REAR MOUNTING BRACKET . . . . .	2
<b>e</b> MEASURING TAPE . . . . .	1	<b>n</b> LOCK KNOB 5/16" X 5/8" . . . . .	2
<b>f</b> LOCK KNOB . . . . .	2	<b>o</b> SCREW 5/16" . . . . .	2
<b>g</b> HEX NUT 1/4" . . . . .	2	<b>p</b> SQUARE NUT . . . . .	4
<b>h</b> BOLT (M6) . . . . .	4	<b>q</b> FLAT WASHER 5/16" . . . . .	2
<b>i</b> FLAT WASHER 1/4" . . . . .	8	<b>r</b> * R BOLT 1/4" . . . . .	4

\*Models 90-170/90-170B, 90-290 and 90-380 only.

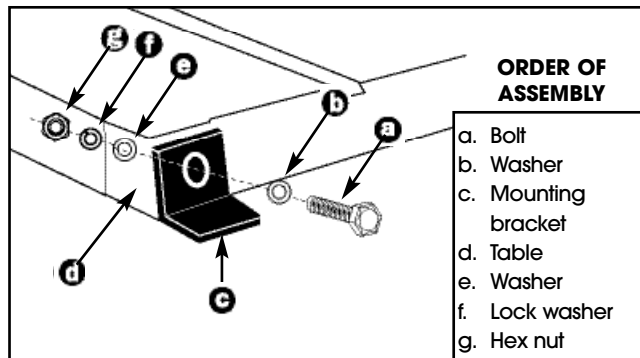


# INSTALLATION OF THE FRONT AND REAR MOUNTING BRACKETS TO THE BANDSAW'S TABLE

**Note:** The M6 bolts, washers, lock washers and hex nuts required for this step are provided with your Excalibur® Universal Bandsaw Rip Fence System. However, if they do not fit into the mounting holes on your table, use the fasteners provided with your original fence.



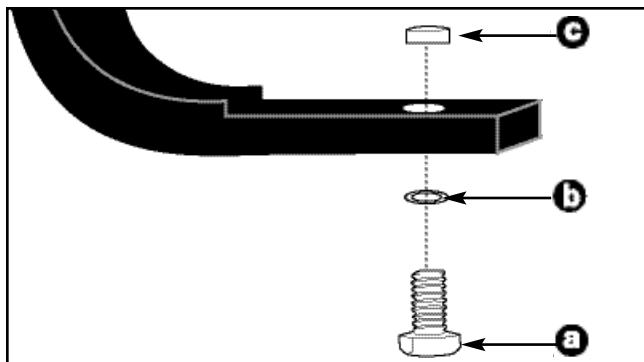
1. The image above shows the positioning of the mounting brackets when properly installed to the table (front and rear brackets are installed at opposite sides of the table).



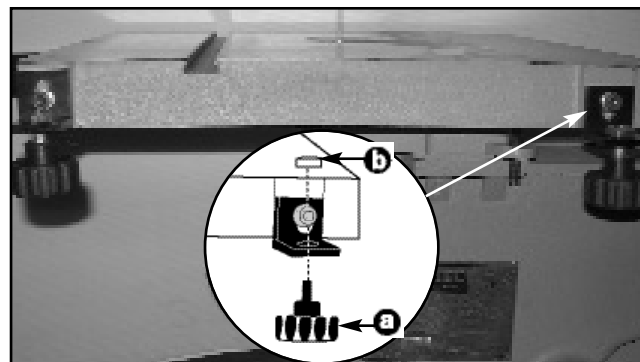
2. Place the bolts, washers, lock washers and hex nuts as shown above to attach the mounting brackets (front and rear) to the table. Don't tighten the nuts yet.

## INSTALLATION OF THE FRONT AND REAR RAILS

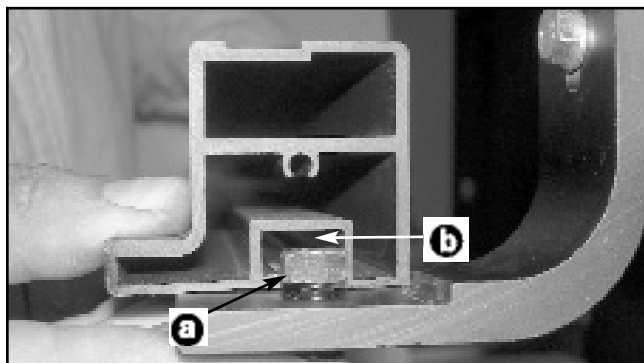
**Note:** The front rail is the wider one of the two rails.



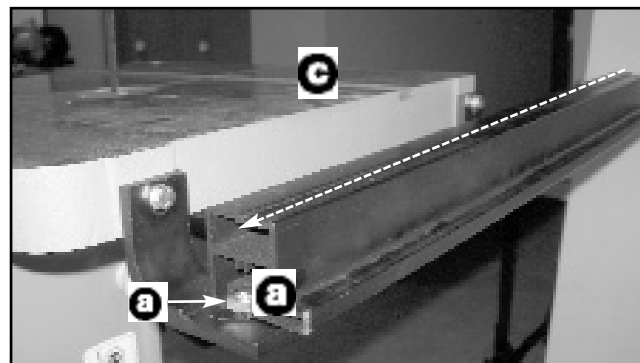
1. Install a 5/16" screw **a**, a flat washer **b**, and a square nut **c** on both front mounting brackets.



2. Install a 5/16" x 5/8" lock knob **a** and a square nut **b** on both rear mounting brackets.

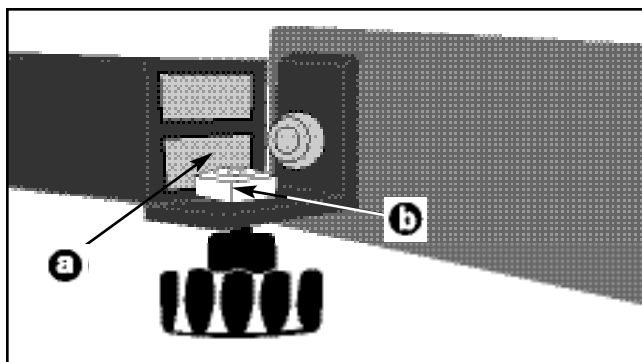


3. Insert the square nut **a** of the first front mounting bracket into the T-slot of the front rail **b**.

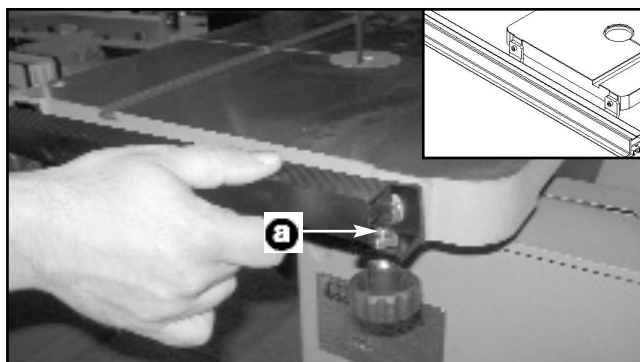


4. Then, slide the rail onto the second square nut **a**.

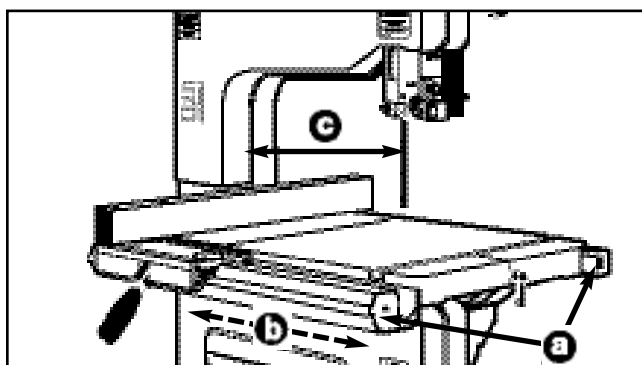




5. Insert the square nut **a** of the first rear mounting bracket into the T-slot of the rear rail **b**.



6. Then, slide the rail up to the second square nut **a**.

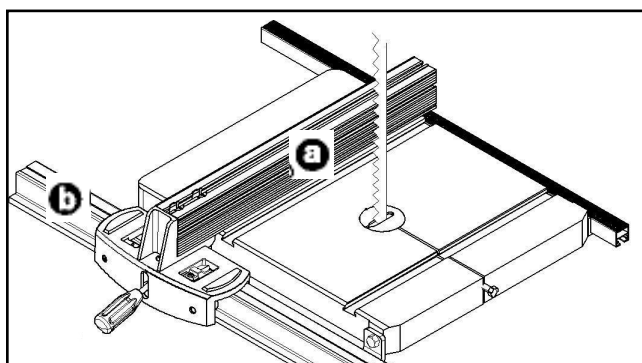


7. Position the rails **a** to the left or right of the table **b**, depending upon the size of your bandsaw **c** i.e. the space between the frame of the saw and the blade (see image left), and your personal preferences, then tighten the nuts to lock the rails in position.

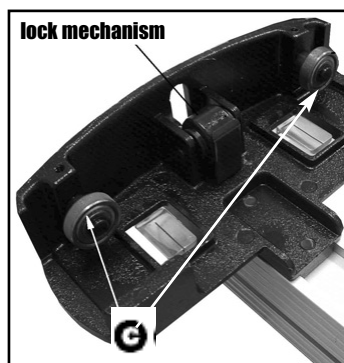
**Tip:** You can adjust the rail positioning in relation to the blade as needed to accommodate the need for more cutting capacity. For example, if you intend to use this fence for cutting longer or wider workpieces, it may be preferable to position the fence rails further to the right. For shorter workpieces (that fit between the frame of the saw and the blade), position the rails further to the left.

**Note:** You can always reposition the fence rails further left or right as needed. However, once the measuring tape is installed (see "Installation of the measuring tape and pointer" on page 8) on the front rail, you'll be able to use the zero reference of the tape only when the rail is positioned as it was during initial alignment. When the rails are repositioned, you will need to use a separate measuring tape (or ruler) to determine the distance between the fence and the blade. You will still be able to use the tape as a reference, but not for accurate measurements from the zero point.

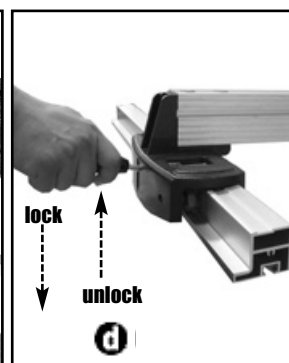
## INSTALLATION OF THE FENCE



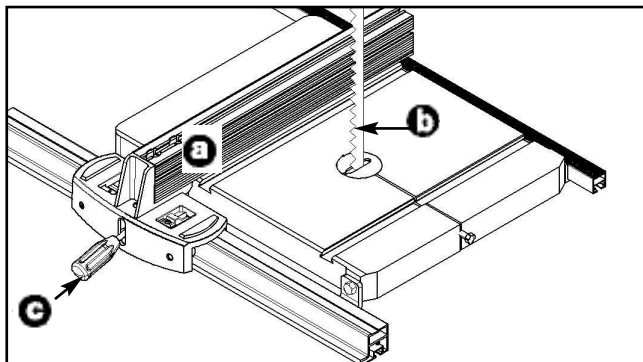
1. Position the fence **a** firmly down on top of the front rail **b**.



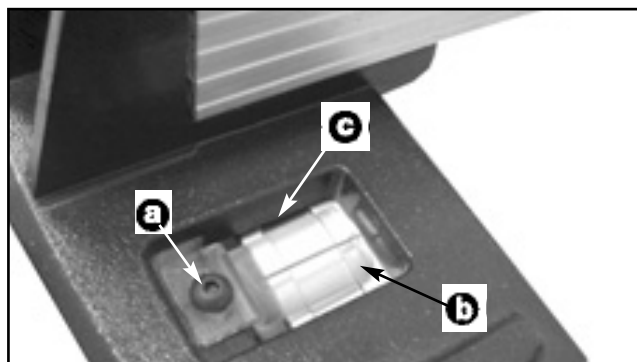
2. Make sure the bearings **c** are sitting flush on the rail, then lock down the fence locking handle **d**.



# INSTALLATION OF THE MEASURING TAPE AND POINTER



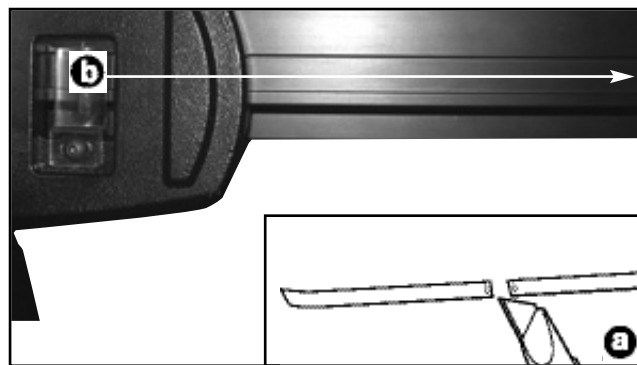
1. Place the fence **a** to the right of the saw blade **b**, so it touches the blade **b**, then lock down the fence **c**.



2. With a 3 mm Allen key, unscrew and remove the screw **a** that holds the pointer **b** into the right pointer's window **c** of the fence base.



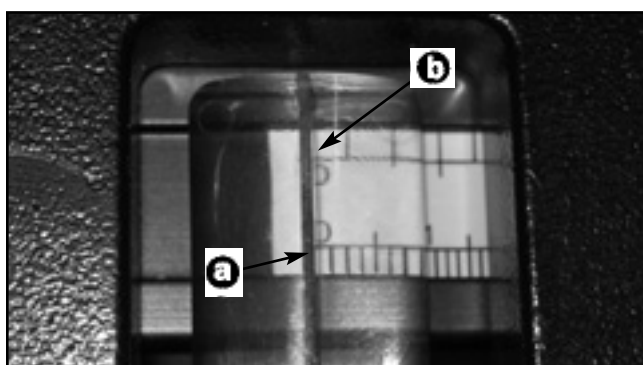
3. Make a pencil mark on the rail, in line with the pointer's center mark. Then, unlock the fence and put aside the pointer, screw and fence for now.



4. Cut the measuring tape between both zeros **a**. Remove the backing strip from the first half of the measuring tape (the one with the zero on the left) and carefully install along the rail slot, using your pencil mark as the zero-point of the tape **b**. Trim off excess tape with a knife or scissors.

**Tip:** Try removing only an inch of backing strip from the start of the tape, stick that down, then remove the rest of the backing and pull the measuring tape taut to the end of the rail slot and carefully lower it against the slot.

**Note:** For accurate readings, the tape must be placed straight parallel with the rail slot, with no folds along its length.

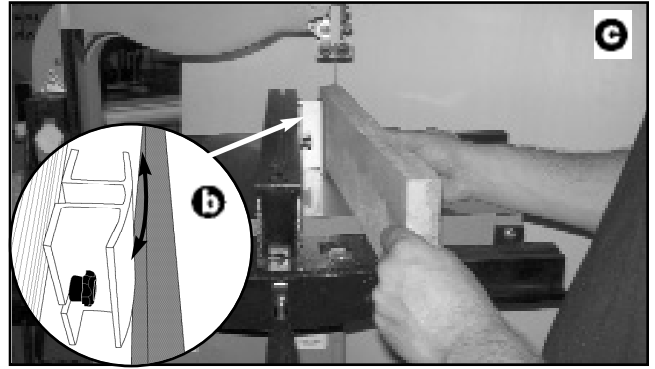
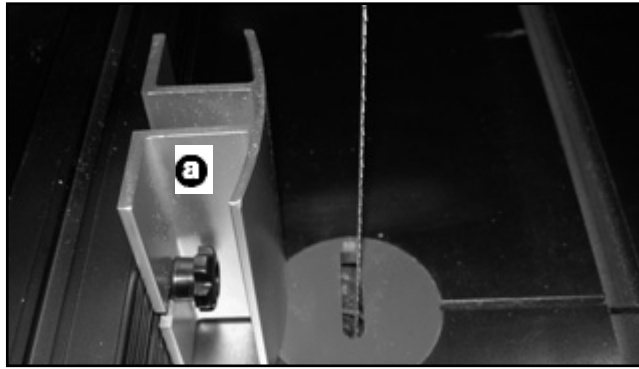


5. Reinstall the fence on the front rail and lock it down. Then, reinstall the pointer (place the screw in the middle of the hole to allow maximum adjustment capacity on the left or right afterward), and slide the pointer right or left, so that its center mark **a** is in line with the zero-point **b** of the tape. Tighten the screw to lock the pointer in place.

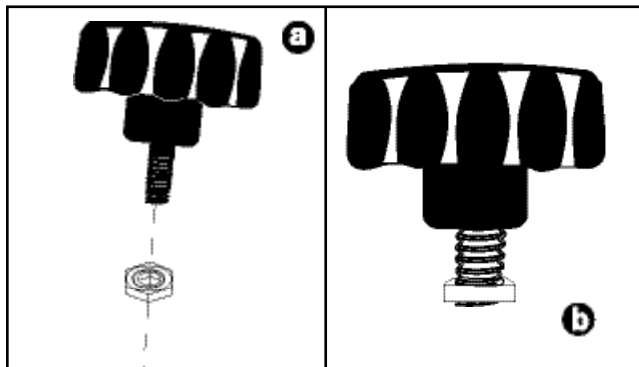
6. Unlock the guide fence and repeat steps 1 to 5 with the fence to the left of the blade this time, aligning the center mark of the left pointer with the zero of the second half of the measuring tape.

**Note:** Recheck and, if necessary, readjust the left and right pointers against the zero-point of both measuring tapes whenever you change blades. Different blades have different thicknesses, which can throw off the pointer a few fractions.

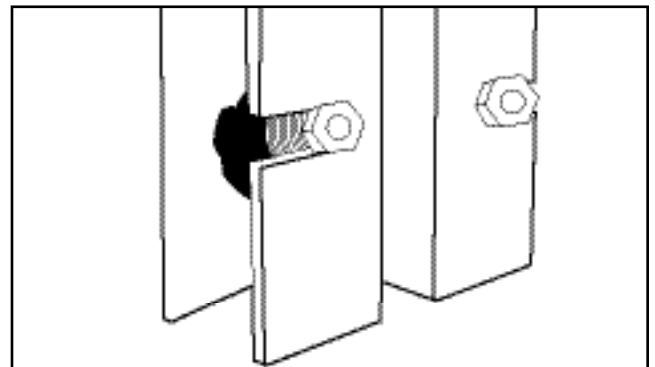
# INSTALLATION OF THE RESAW GUIDE



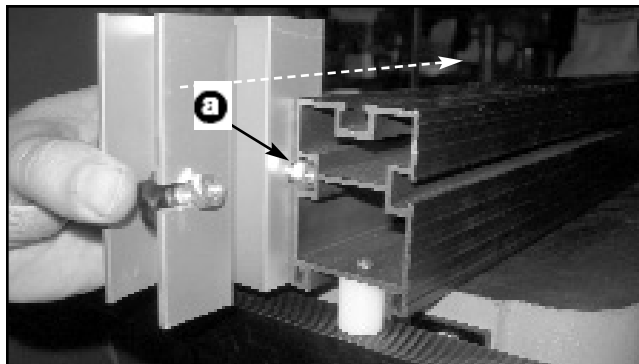
The 3 1/2" resaw guide **a** facilitates resawing of wide boards by allowing you to pivot your workpiece on its curved surface **b** to correct the line of the cut as you push the work piece into the blade **c**.



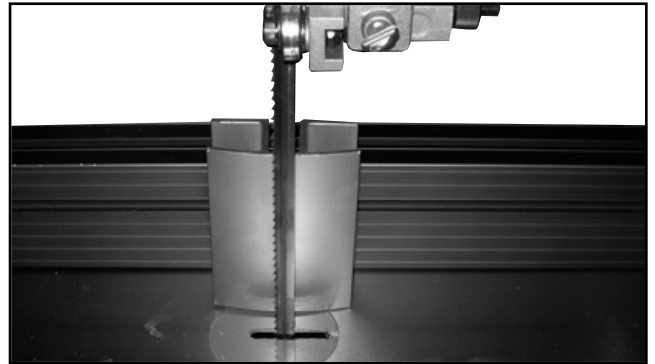
1. Screw a hex nut onto each of the 2 lock knobs **a**, just a few turns only, leaving a good space between the nut and the knob **b**.



2. Slide the nut/knob sets into the slots on the flat face of the resaw guide with the nuts on the outside face as shown above.



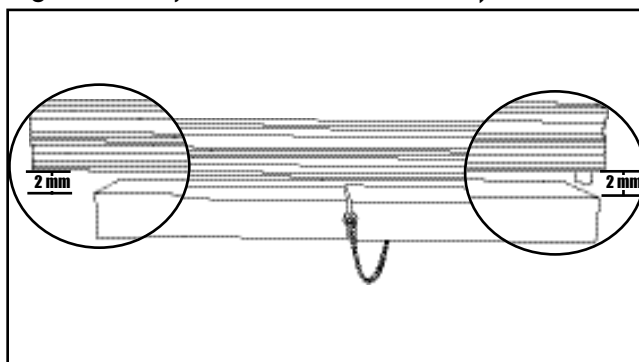
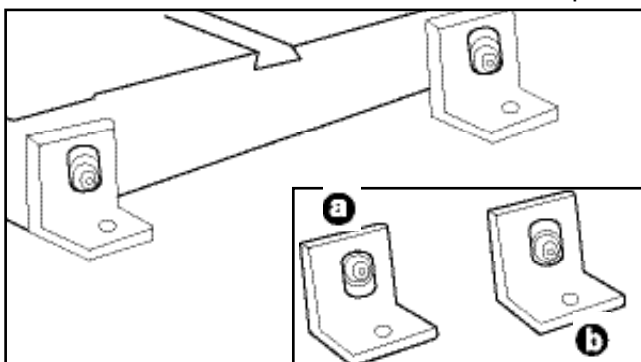
3. Slide the resaw guide onto the fence by sliding the nuts into the slot **a** in the fence, from the rear.



4. Position the resaw guide along the fence, lining up the center of the guide with the blade of the saw.

## LEVELING THE FENCE

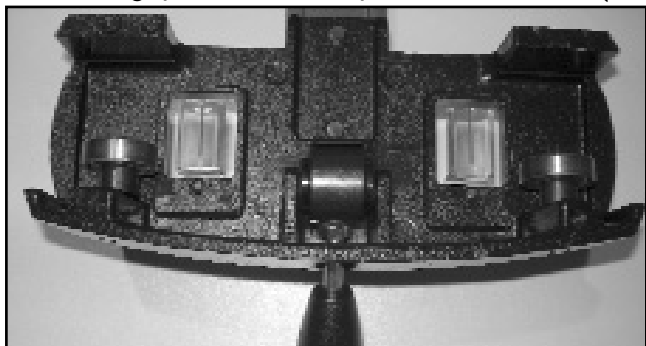
The fence should be parallel to the bandsaw's table and sit approximately 2 mm above the table's surface (so the fence will not scratch the table and a thin work piece will not get stuck or jammed under the fence.)



1. To level and adjust the height of the fence, loosen the hex nuts that hold the mounting brackets to the table (see image left), and raise **a** or lower **b** the front and rear rails along the elongated holes in the mounting brackets. Level the fence, front and back as needed, and set the spacing between the bottom of the fence and the table to 2mm (approx.) as shown in image right. Then, tighten the hex nuts to lock the rails in position.

## VERTICAL ADJUSTMENT OF THE FENCE 90° TO THE TABLE

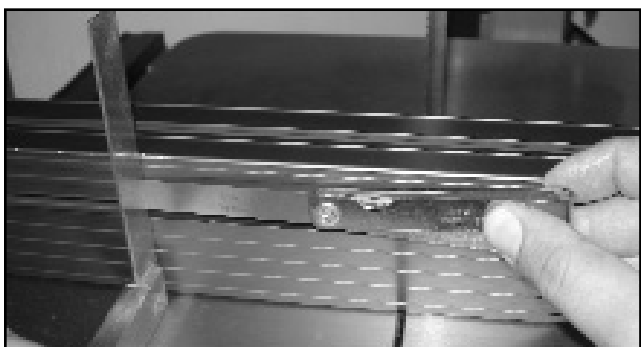
Place a machinist square on the table against the fence (See Step 4 below) and, either by eye or with a feeler gauge, look for a gap between the square and the fence (bottom and top) or the table. If needed, adjust as follows.



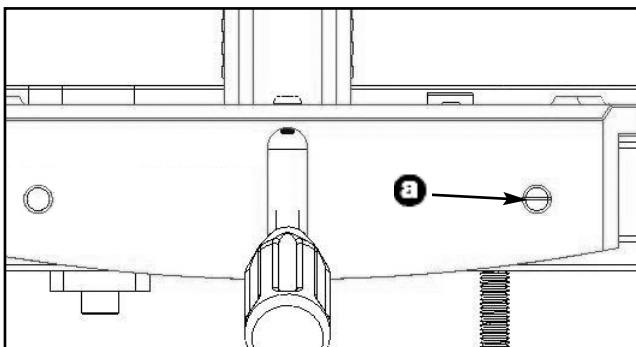
1. Remove the fence from the rails and turn it up side down.



2. With a 5 mm Allen key, loosen the set screw (without removing it).
3. Put the fence back on the rails, but do not engage the locking handle to lock the fence.



4. Reposition the square on the table against the fence as a reference.



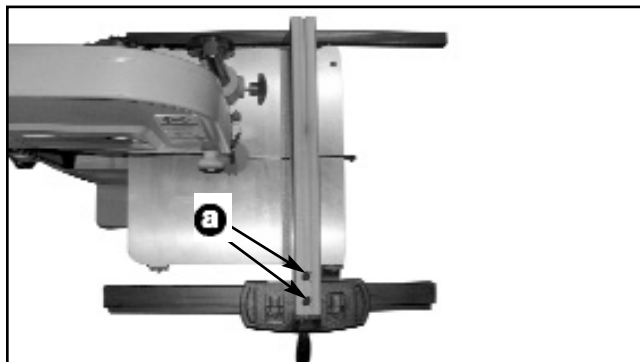
5. With a flat head screwdriver, slowly turn the screw **a** (eccentric shaft) on the fence base. This will tilt the fence slightly, allowing you to eliminate the gap between the square and either the fence or the table.

6. With the fence adjusted 90° to the table, remove it from the rails, turn it up side down and retighten the set screw to lock the fence in place.

# ALIGNMENT OF THE FENCE PARALLEL TO THE MITER SLOT

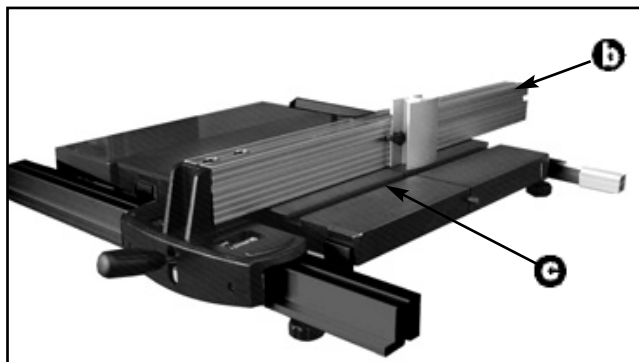
To make satisfactory rip cuts, your fence must be aligned perfectly parallel with the miter slot in the table. Slide the fence over to the T-slot on your saw, as shown in the second diagram. Lock down the fence handle and make a visual check to verify if the fence is parallel with the T-slot along its entire length. You can also place a small block of wood, upright into the T-slot and slide it from front to back checking its distance from the face of the fence.

If the fence is not parallel, it can be adjusted as follows:

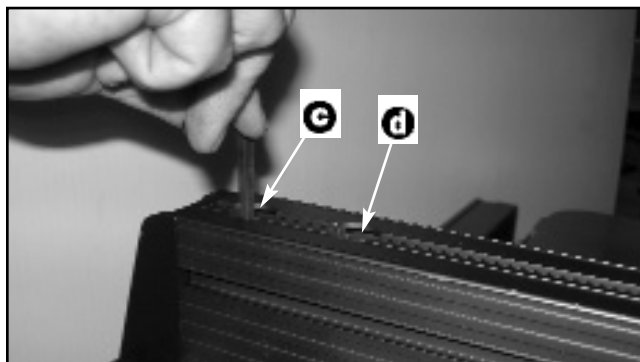


1. Make sure the guide fence is locked on the rails (locking handle down).

2. With a 8 mm Allen key, loosen (without removing) both screws **a** that attach the fence to the fence base.

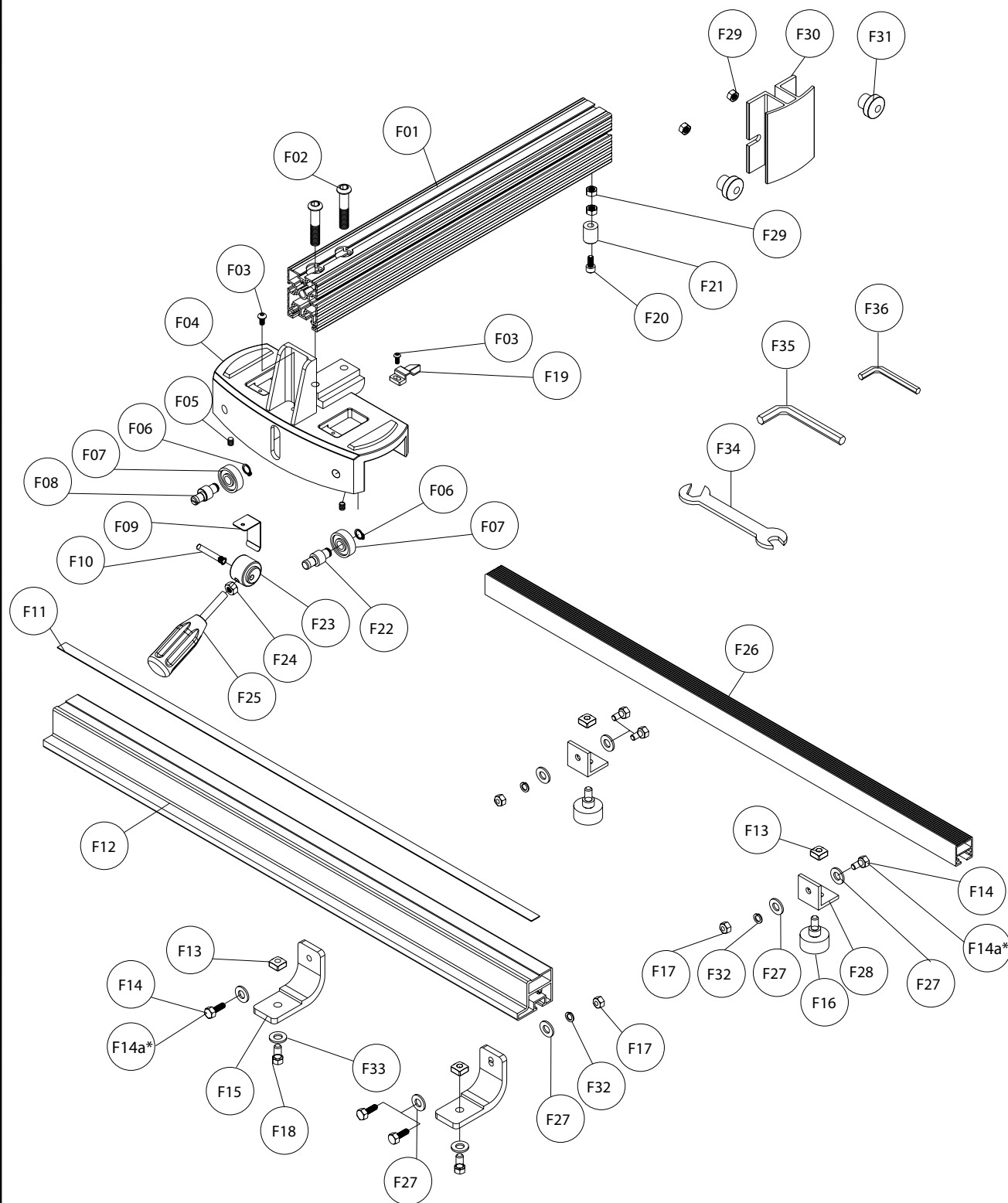


3. Manually adjust the fence **b**, so that it is parallel with the miter slot **c**.



4. Hold the fence in place with one hand and tighten the first screw **c**.

5. If needed, adjust a little further with the remaining bit of play, then tighten the second screw **d**.



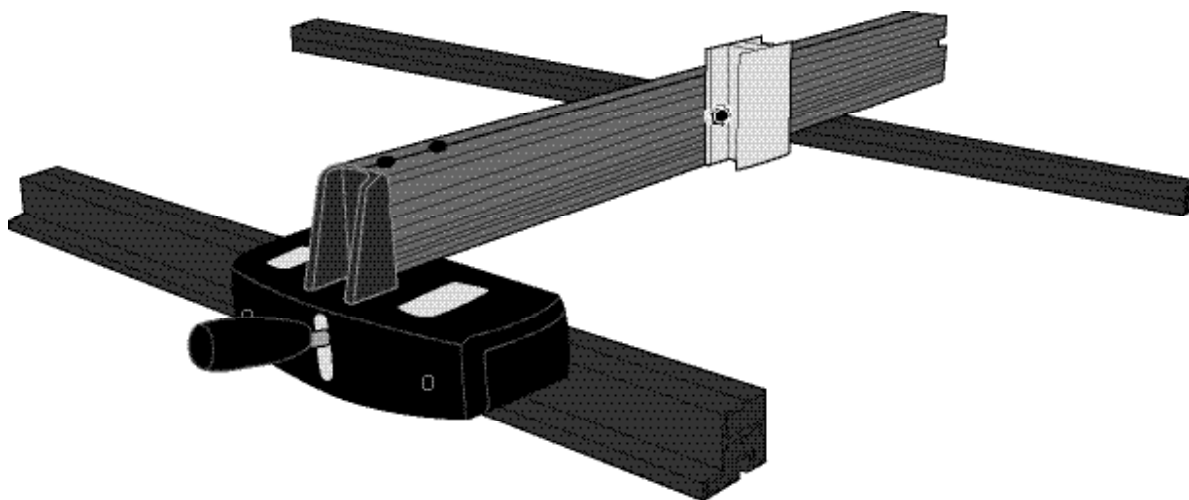
\*Models 90-170/90-170B, 90-290 and 90-380 only.

**PARTS LIST**  
**90-075A/B/C**

<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>SPECIFICATION</b>	<b>QTY</b>
90075-F01A	FENCE BODY 21" (FOR 90-075A)		1
90075-F01B	FENCE BODY 25" (FOR 90-075B)		1
90075-F01C	FENCE BODY 28" (FOR 90-075C)		1
90075-F02	SOCKET HEAD SCREW	10X25	2
90075-F03	SOCKET HEAD SCREW	5X10	2
90075-F04	FENCE BASE		1
90075-F05	SET SCREW	1/4X1/4	2
90075-F06	C-RING	S10	2
90075-F07	BEARING	6200	2
90075-F08	ECCENTRIC SHAFT		1
90075-F09	PRESSURE PLATE		1
90075-F10	PIN	6X43	1
90075-F11	SCALE		1
90075-F12A	FRONT FENCE RAIL 29" (FOR 90-075A)		1
90075-F12B	FRONT FENCE RAIL 29" (FOR 90-075B)		1
90075-F12C	FRONT FENCE RAIL 34" (FOR 90-075C)		1
90075-F13	SQUARE NUT		4
90075-F14	BOLT	(M6)	4
90075-F14a*	R BOLT	1/4"	4
90075-F15	BRACKET (FRONT)		2
90075-F16	LOCK KNOB	5/16"X5/8"	2
90075-F17	HEX NUT	M6	4
90075-F18	SCREW	5/16"	2
90075-F19	POINTER		2
90075-F20	CAP SCREW	6X10	1
90075-F21	FOOT		1
90075-F22	BEARING SHAFT		1
90075-F23	LOCK MECHANISM		1
90075-F24	NUT	8MM	1
90075-F25	FENCE HANDLE		1
90075-F26A	REAR FENCE RAIL 25 3/4" (FOR 90-075A)		1
90075-F26B	REAR FENCE RAIL 25 3/4" (FOR 90-075B)		1
90075-F26C	REAR FENCE RAIL 34" (FOR 90-075C)		1
90075-F27	FLAT WASHER	1/4"	8
90075-F28	L BRACKET (REAR )		2
90075-F29	HEX NUT	1/4"	2
90075-F30	RESAW ATTACHMENT		1
90075-F31	LOCK KNOB		2
90075-F32	LOCK WASHER	1/4"	4
90075-F33	FLAT WASHER	5/16"	2
90075-F34	OPEN END WRENCH	10/12MM	1
90075-F35	ALLEN KEY	5MM	1
90075-F36	ALLEN KEY	3MM	1

\*Models 90-170/90-170B, 90-290 and 90-380 only.

**MODEL 90-075/A/B/C**



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**IMPORTANT**

**When ordering replacement parts, always give the model number, serial number of the machine and part number. Also a brief description of each item and quantity desired.**